



Earned Value Management from a Behavioral Perspective

ARMY

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Outline

- Earned Value from a behavioral perspective
 - Risk Management Challenge
 - Motivation & Constraints
 - Improving Earned Value



EVM in a TQM Context

- Hank's view of the problem with EVM
 - Plan Establish the Performance Measurement Baseline
 - Do Perform the work
 - Check Measure performance (CPI / SPI)
 - Act React to performance
- Planning
 - Identification of risk
 - Assessing risk
 - Insertion of risk mitigation
 - Resourcing
 - Scheduling

- Reacting to performance
 - Resources largely committed
 - Schedules are tight
 - Problems often not understood
 - Punitive impact of response
 - Budget cuts
 - Rebaseline

Planning & Reacting to performance are hard



Risk Management Challenge

- Process encourages risk taking but punishes failure
 - no mechanism to account for risk without punishment
- The combination of increased risk and pressure to minimize resources is a significant problem
- Resource adequacy confounded by:
 - New ways of doing business
 - Understated technical risk
 - Market forces
 - Requirements & funding instability
 - Task misunderstanding
- Resource adequacy is a judgement call

- Tools/skills to facilitate planning
 - DSMC training has improved ... but
 - Lack of discipline in risk mitigation/ identification / management
 - Criteria for "good" plan are unclear
- Walls are created before PMB is established
 - Cost / schedule / performance established months before PMB
 - Development of realistic PMB exposes inadequacy too late



Motivators

Government

Program definition priorities

- **#1 Performance**
- #2 Cost (funding profile)
- #3 Schedule (dependent variable)

Program execution priorities

- #1 Maintain schedule
- #2 Fight for dollars
- #3 Performance (dependent variable)

Industry

Interests

- Reputation (past performance)
- Customer satisfaction
- Profit
- Future market
- Technical capability
- Resource utilization



Behavior Outcome

Government

Readiness dilemma

- Driven to keep program alive
- Wanting to believe contractor can "pull it off"

Industry

Buy-in dilemma

- Hoping to solve the problem before failure declared
- Likelihood of "bail-out"

Outcome

No one can let go until it's too late!



Keys to Improved Value

- Increase the PMB's ability to absorb change
 - Resource bounds determined before risks are understood
 - Risk assessment is a skill not easily taught; not often supported by tools
- Potential improvements
 - Develop PMB prior to contract definitization or as input to source selection
 - Adopt modular contracting approach to enable planned break points to assess risk
 - Increased training and guidelines in IBR goals & conduct
 - Provide better risk and scheduling mitigation tools